

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113762 A3

(51) International Patent Classification⁷: **F16H 25/20**,
25/24

(21) International Application Number:
PCT/EP2004/005595

(22) International Filing Date: 25 May 2004 (25.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
VI2003A000119 23 June 2003 (23.06.2003) IT

(71) Applicant and

(72) Inventor: **BRUN, Giancarlo** [IT/IT]; Via Nazario Sauro,
19, I-36015 Thiene (IT).

(74) Agent: **BETTELO, Pietro**; Via Col D'Echele, 25,
I-36100 Vicenza (IT).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

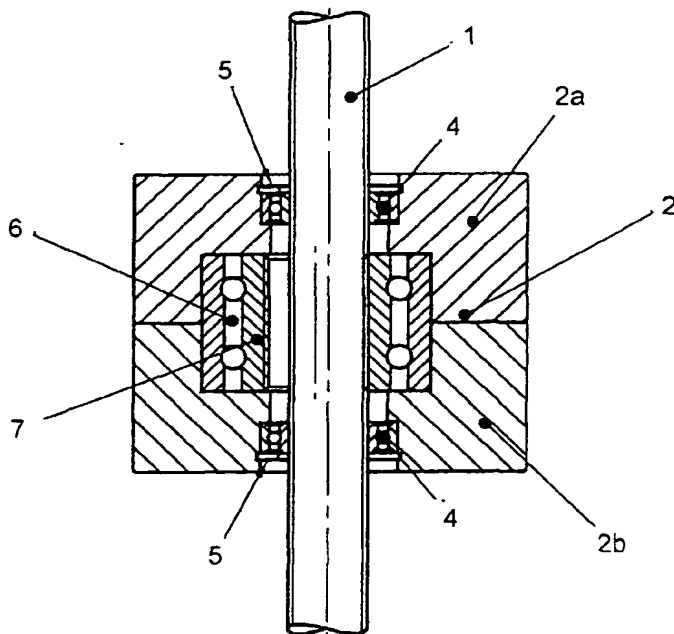
- *as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii)) for the following desig-
nation US*
- *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *with international search report*

[Continued on next page]

(54) Title: ROLLING SCREW WITH SMALLER ADVANCE PER TURN THAN THE PITCH OF THE THREADING



(57) Abstract: This invention concerns a rolling screw with smaller advance per turn than the pitch of the threading, characterised in that a threaded coupling is foreseen in which a screw (1) is turned inside one or more female screws inserted in a single body or sleeve (2) and where the pitch of the thread of said female screws is equal to that of the screw (1), whereas the nominal diameter is greater than that of the screw itself.

WO 2004/113762 A3



— *with amended claims and statement*

(88) Date of publication of the international search report:
17 March 2005

Date of publication of the amended claims and statement:
28 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.